

Comparisons of Job Characteristics

Focus Occupation: [Helpers--Electricians \(47-3013\)](#)

Associated Occupation: [Security and Fire Alarm Systems Installers \(49-2098\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 67

Focus Occupation: [Helpers--Electricians \(47-3013\)](#)

Associated Occupation: [Security and Fire Alarm Systems Installers \(49-2098\)](#)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	13.2	4.8	<< Extensive education and/or training may be required
Public Safety and Security	6.9	10.5	7.5	<< Extensive education and/or training may be required
Mechanical	6.8	9.8	13.4	>> Current knowledge level is likely more than sufficient
Building and Construction	4.0	9.3	14.8	>> Current knowledge level is likely more than sufficient
Telecommunications	3.9	9.1	3.7	<< Extensive education and/or training may be required
Design	5.2	6.6	8.3	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: [Helpers--Electricians \(47-3013\)](#)

Associated Occupation: [Security and Fire Alarm Systems Installers \(49-2098\)](#)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Installation	1.7	8.7	5.7	<< Extensive development of skills in this area may be required
Quality Control Analysis	5.9	8.7	7.1	< A higher skill level may be required
Troubleshooting	4.5	8.2	6.1	<< Extensive development of skills in this area may be required
Equipment Maintenance	3.5	7.6	8.0	0 Current skill level may be sufficient
Repairing	3.4	7.6	7.6	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 81			
Focus Occupation: Helpers--Electricians (47-3013)					
Associated Occupation: Security and Fire Alarm Systems Installers (49-2098)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	11.1	10.3	0	Current ability level may be sufficient
Near Vision	11.1	10.8	12.9	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	10.7	9.8	0	Current ability level may be sufficient
Oral Expression	12.4	10.2	8.5	<	Some improvement in abilities may be required
Arm-Hand Steadiness	6.8	9.8	10.2	0	Current ability level may be sufficient
Deductive Reasoning	10.6	9.5	8.0	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	9.5	9.1	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	9.5	10.0	0	Current ability level may be sufficient
Control Precision	6.6	9.1	9.8	0	Current ability level may be sufficient
Extent Flexibility	4.8	7.8	12.2	>>	Current ability level is likely more than sufficient
Gross Body Equilibrium	3.2	5.5	9.2	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 88
Focus Occupation: Helpers--Electricians (47-3013) Associated Occupation: Security and Fire Alarm Systems Installers (49-2098)		
Work Activities	Exclusivity of Activity	
Bend tubing or conduit	81	
Distinguish colors	44	
Install electrical conduit or tubing	81	
Install/string electrical or electronic cable or wiring	76	
Read blueprints	10	
Read tape measure	41	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Replace electronic components	63	
Solder electrical or electronic connections or components	55	
Test electrical/electronic wiring, equipment, systems or fixtures	54	

Test electronic or electrical circuit connections	66
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 74

Focus Occupation: Helpers--Electricians (47-3013)

Associated Occupation: Security and Fire Alarm Systems Installers (49-2098)

Tools and Technologies	Exclusivity
Aerial lifts	13
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Electrical measuring and testing equipment	7
Fastener setting tools	12
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Ladders and scaffolding	6
Measuring and layout tools	3
Power tools	2
Pulling tools	31
Soldering and brazing and welding machinery and supplies	6
Surveillance and detection equipment	11
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.